

# ARB Vapor Recovery Certification Program

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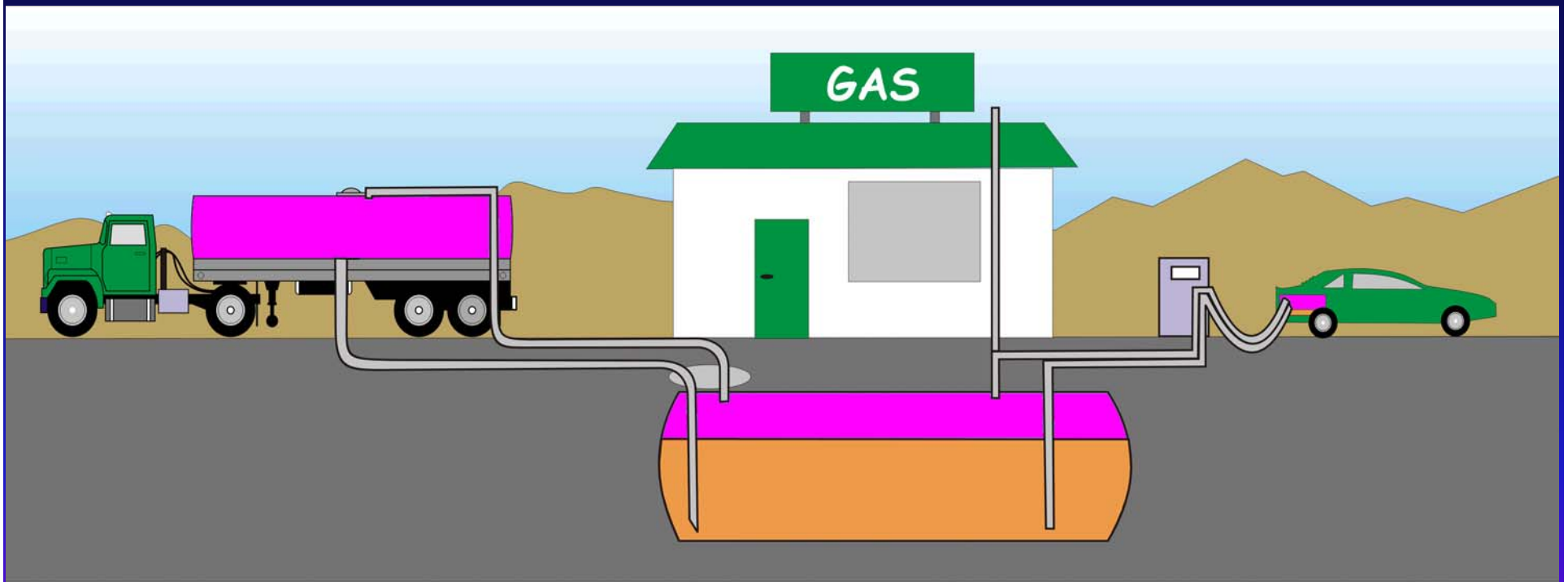
Presented at the Workshop  
re: Proposed "Guidelines for  
Determination of Enhanced  
Vapor Recovery Systems  
with Underground Storage  
Tank Statues"

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Air Resources Board  
Cal-EPA



# Vapor Recovery at Service Stations



Phase I

Phase II

# Vapor Recovery Regulatory Roles

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- **USEPA**

- Requires ARB-certified vapor recovery systems
- Requires onboard refueling vapor recovery (ORVR) on vehicles (phase-in started in 1998)

- **California Air Resources Board**

- Sets standards as authorized by H&SC 41954
- Certifies Phase I and Phase II systems

- **Local Air Pollution Control Districts**

- Permit GDFs and enforce vapor recovery rules
- CAPCOA Vapor Recovery Committee

# ARB Certification Process for Phase 1 and Phase II Systems

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- Application by equipment manufacturer
- Install equipment at test site
- Periodic testing during operational test
- Emission test for primary standard
- Approval from DOSH, SFM, DMS
- Draft Executive Order for district review
- Issue Executive Order
- Bill applicant for ARB cert expenses

# Phase I System Components

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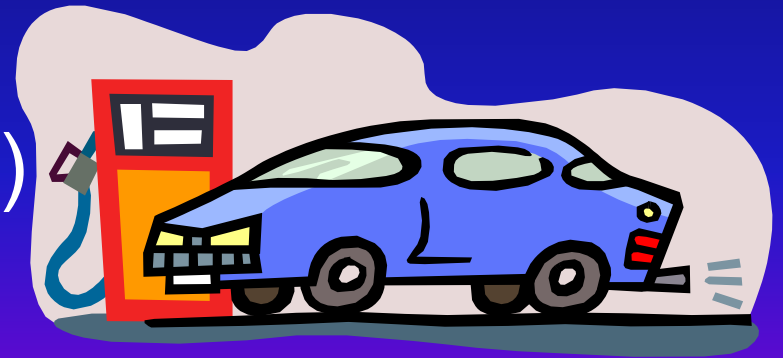
- Spill containers & covers
  - drain valves
- Rotatable product and vapor adaptors
  - dust caps and drop tube
- Overfill prevention device
  - ball floats or drop tube OPD
  - Pressure/vacuum vent valve
- Tank gauge port components
- Other (extractor fittings, tool kits, etc.)



# Phase II System Components

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- Dispenser & associated vapor piping
- Control board
- Nozzles & splash guards
- Hoses, break-aways, swivels
- Flow control units
- Vapor pump (for assist)
- Vapor processor
- Underground vapor piping

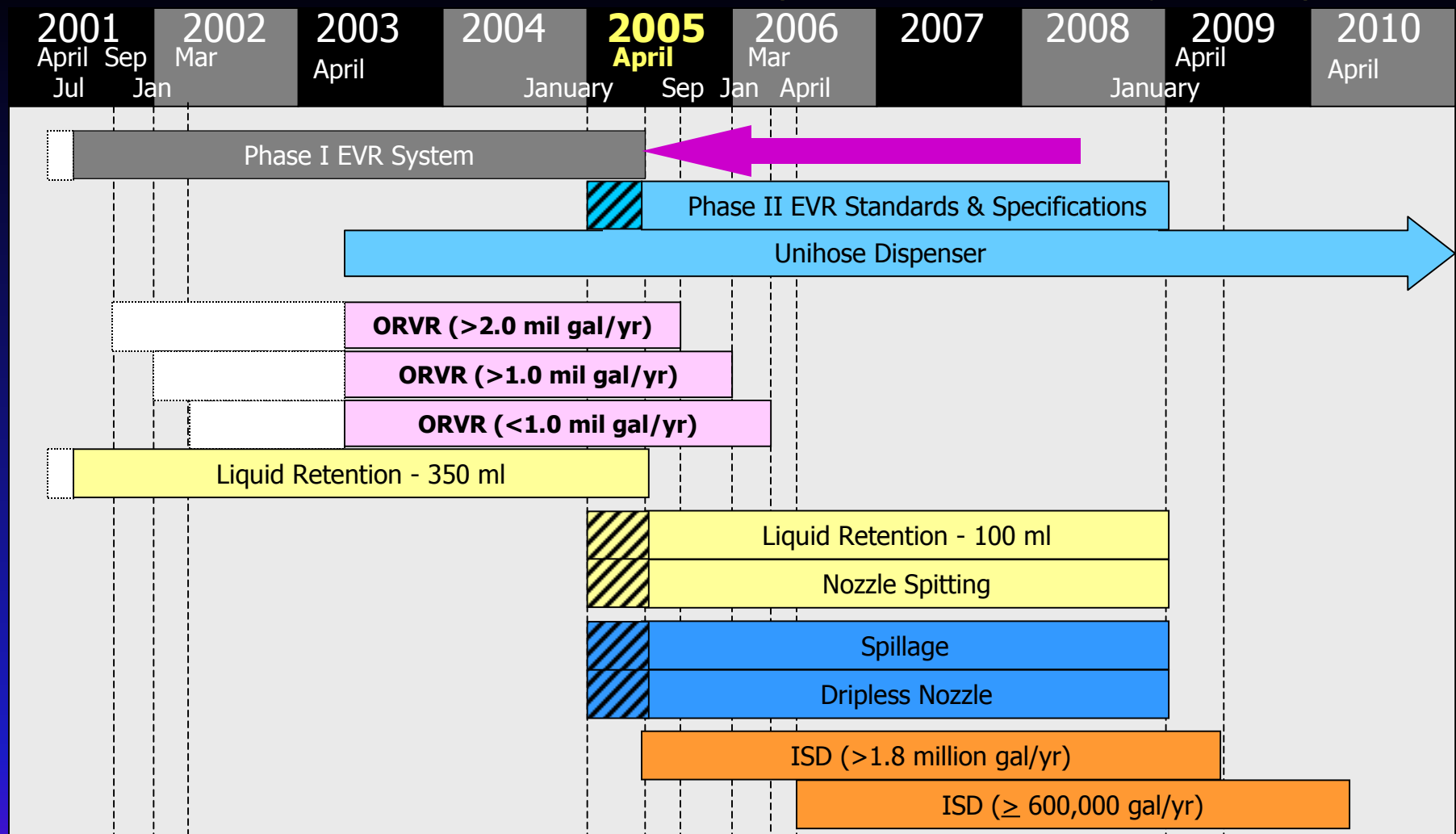


# Executive Orders

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- Executive Orders (EOs) describe equipment allowed for certified system and include:
  - Operational constraints, if applicable
  - Testing requirements
  - Installation, maintenance and operation manual

# Proposed EVR Timeline (updated January 2005)



Striped box: Executive Order delay as systems meeting these standards are not yet commercially available



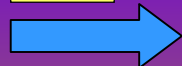
Dotted box: time between start of 4-year clock and operative date



Start of solid bar: date required for new or modified facilities (operative date)



End of solid bar: date required for existing facilities (installed before start of bar)



Not required for dispensers installed before April 2003



# Questions?

